

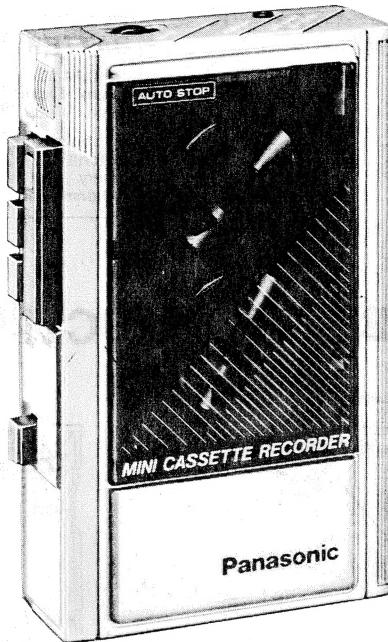
Service Manual

Mini Cassette

RQ-340

(Silver)

AC/Battery Mini Cassette Recorder
with Auto-Stop and One-Touch Recording



This is the Service Manual
for the following areas.

M ... For U.S.A.

C ... For Canada.

RQ-339 MECHANISM SERIES

■ SPECIFICATIONS

Power requirement:	AC; 120V, 60 Hz (with optional Panasonic AC Adaptor RP-63) Battery; 6V (four "AA" size batteries) Car battery; (with optional Panasonic Car Adaptor RP-698)
Motor:	Mechanism governor motor
Power output:	700mW
Tape speed:	4.8cm/s
Track system:	2-track monaural recording and playback
Jacks:	DC in; 6V ϕ 5.5 Monitor; 8 Ω ϕ 3.5
Speaker:	5cm PM dynamic speaker (6 Ω)
Dimensions:	100.5(W) \times 160.5(H) \times 46.5(D) mm (3 $\frac{15}{16}$ \times 6 $\frac{5}{16}$ \times 1 $\frac{7}{8}$)"
Weight:	450g, without batteries

Design and specifications are subject to change without notice.

Panasonic

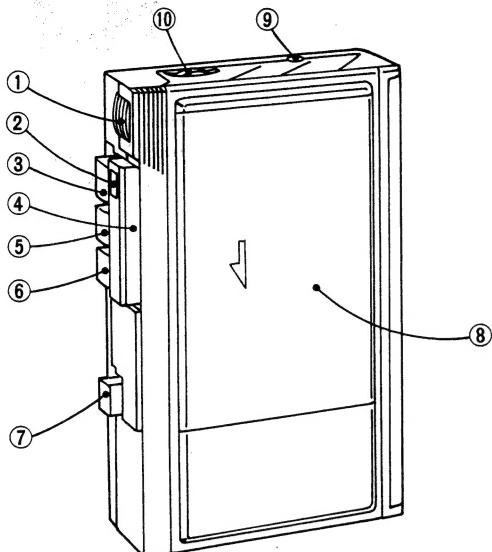
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Service Company
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Secaucus, New Jersey 07094

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Victoria Industrial Park
Carolina, Puerto Rico 00630

LOCATION OF CONTROLS AND COMPONENTS



- ① Built-in Microphone
- ② Record Button
- ③ Stop Button
- ④ Play Button
- ⑤ Rewind/Review Button
- ⑥ Fast Forward/Cue Button
- ⑦ Eject/Pause Button
- ⑧ Cassette Compartment
- ⑨ Monitor Jack (M3 ϕ 3.5)
- ⑩ Volume Control

BATTERY SERVICE LIFE

UM-3 (AA-size) Batteries

Approx. 4 hours of recording (EIAJ)

Approx. 4 hours of playback (EIAJ) with volume set at center position

The above battery service life is measured according to the conditions set forth by EIAJ (Electronic Industries Association of Japan). As the battery service life varies with the method of operation and environmental conditions, use these values as reference.

DISASSEMBLY INSTRUCTIONS

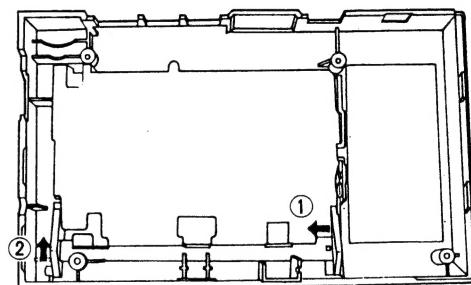
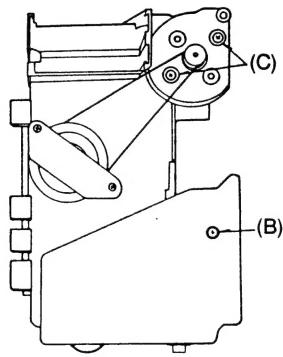
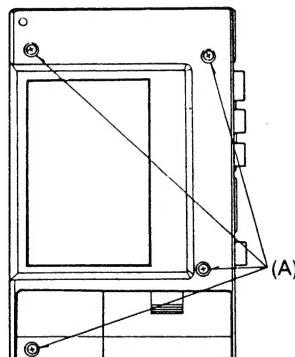


Fig. 1

Fig. 2

Fig. 3

Ref. No.	Shown in Fig. —.	To Remove	Remove
1	1	Rear Cabinet	Screw (2.6×33mm)(A)×4
2	2	Circuit Board	Screw (2.6×8mm)(B)×1
3	2	Motor	Screw (2.6×7.5mm)(C)×2
4	3	Cassette Compartment	Push the catch in the direction of arrows ① ②.

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

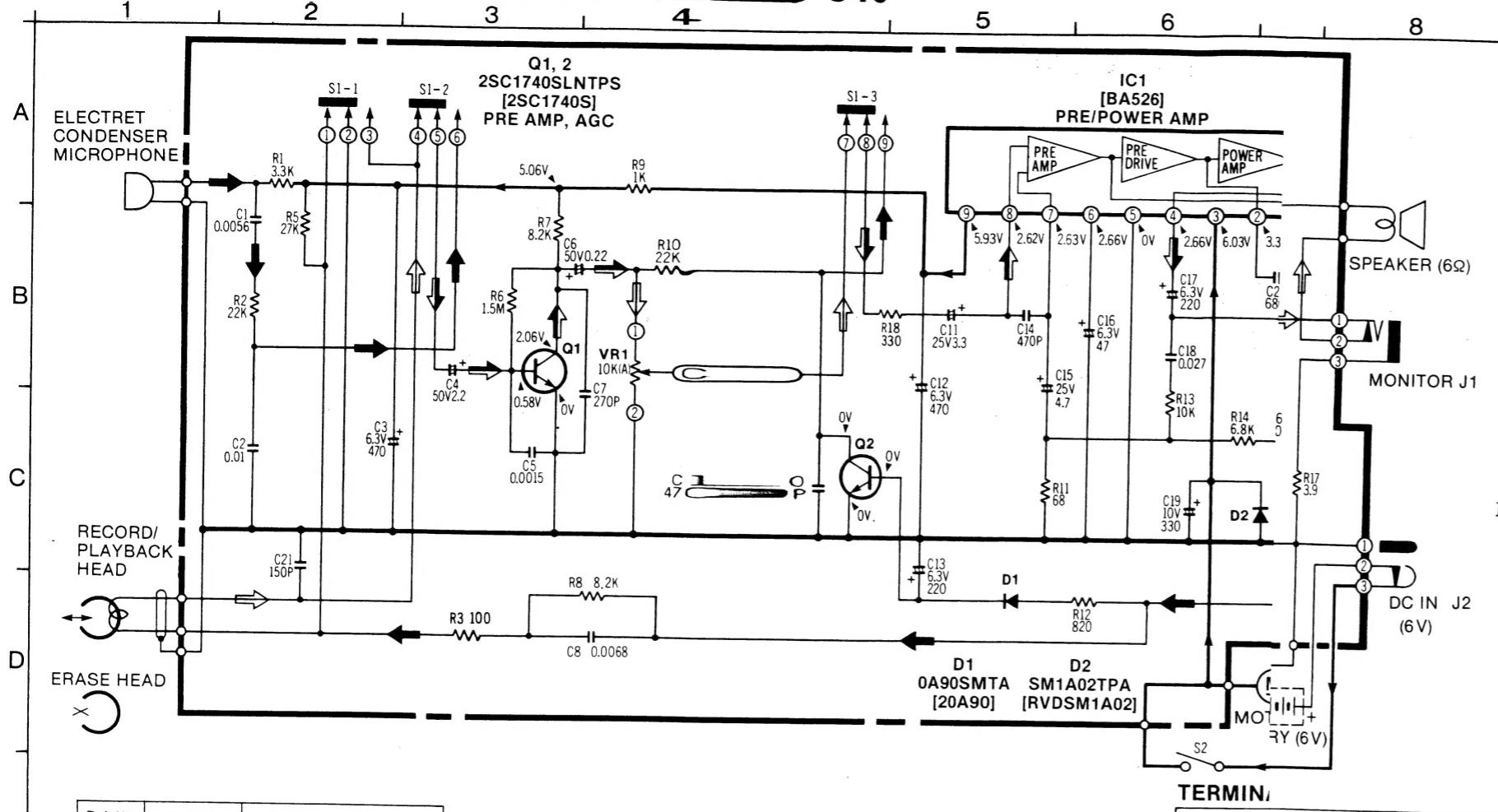
READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Make sure heads are clean.
2. Make sure capstan and pressure roller are clean.
3. Judgeable room temperature: $20 \pm 5^\circ\text{C}$ ($68 \pm 9^\circ\text{F}$)
4. Set volume control to maximum.
5. Set power source voltage to 6V DC.

■ ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Head azimuth	QZZCFM (8kHz, -20dB)	Monitor jack (8Ω)	Maximum output	Head adjustment screw	Playback mode

SCHEMATIC DIAGRAM MODEL RQ-340

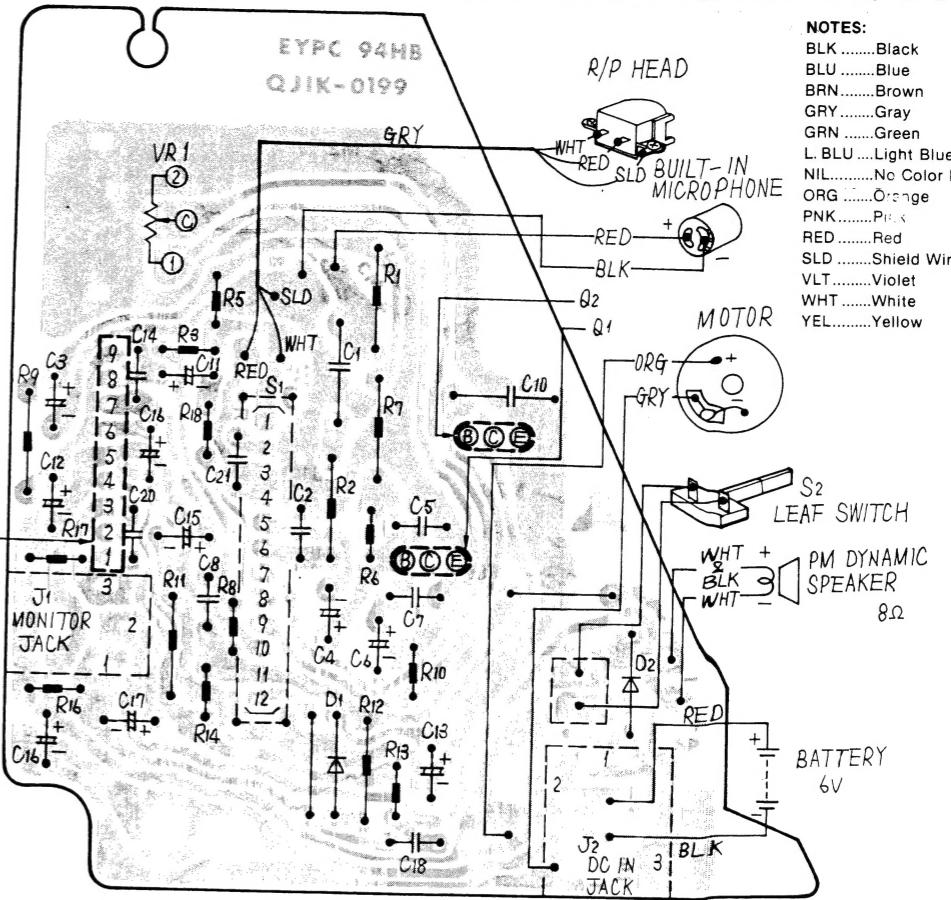


Ref. No.	Part No.	Part Name & Description
INTEGRATED CIRCUIT		
IC 1	BA526	IC (Pre/Power Amp)
TRANSISTORS		
Q 1, 2	2SC1740S	Transistor (Pre/AGC Amp)
DIODES		
D 1	20A90	Diode (Ge)
D 2	RVDSM1A02	Diode (Si)
VARIABLE RESISTOR		
VR 1	EVJ56AT12A14	Volume Control VR.
SWITCHES		
S 1	QSS4217	Slide Switch (Record/Playback Selector)
S 2	QSB0294	Leaf Switch (Power ON/OFF)
JACKS		
J 1	OJA0172	Jack (Monitor)
J 2	QJA0149	Jack (DC In)

NOTES:

- S1-1—S1-4 Record/playback switch (shown in playback position).
- S2 Power ON/OFF switch (shown in OFF position).
- VR1 Volume control.
- Resistance are ohms (Ω), 1/4 watt unless specified otherwise. $1\text{K}=1,000\Omega$, $1\text{M}=1,000\text{K}\Omega$.
- Capacity are microfarads (μF) unless specified otherwise. $\text{P}=\text{Pico-farads}$.
- All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position. For measurement, use VTVM.
- (\rightarrow) this arrow indicates the flow of the playback signal.
- (\rightarrow) this arrow indicates the flow of the recording signal.
- (\rightarrow) this arrow indicates the flow of the playback and recording signal in combination.
- (\rightarrow) + B (bias) line.
- (\rightarrow) Earth line.

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM MODEL RQ-340

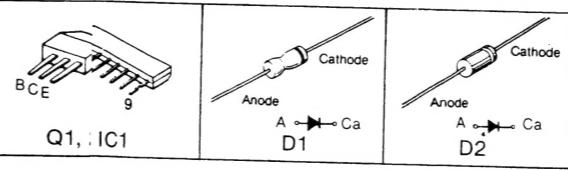


NOTES:

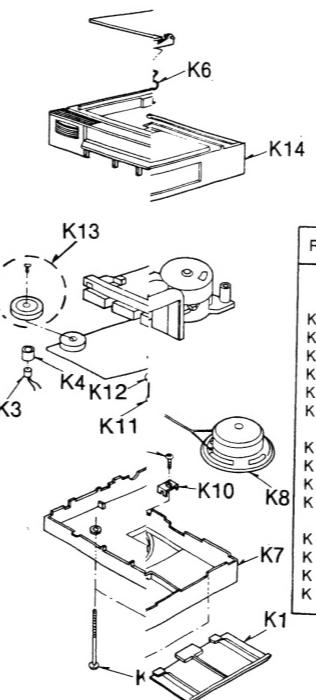
- BLK Black
- BLU Blue
- BRN Brown
- GRY Gray
- GRN Green
- L. BLU Light Blue
- NIL No Color Mark
- ORG Orange
- PNK Pink
- RED Red
- SLD Shield Wire
- VLT Violet
- WHT White
- YEL Yellow

NOTES:

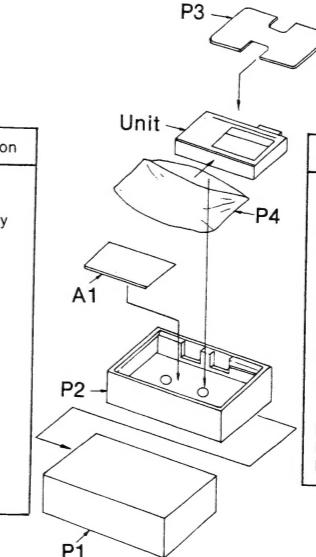
- The circuit shown in on the conductor indicates printed circuit on the back side of the printed circuit board.
- The circuit board diagram may be modified at any time with the development of new technology.



CT PARTS LOCATION



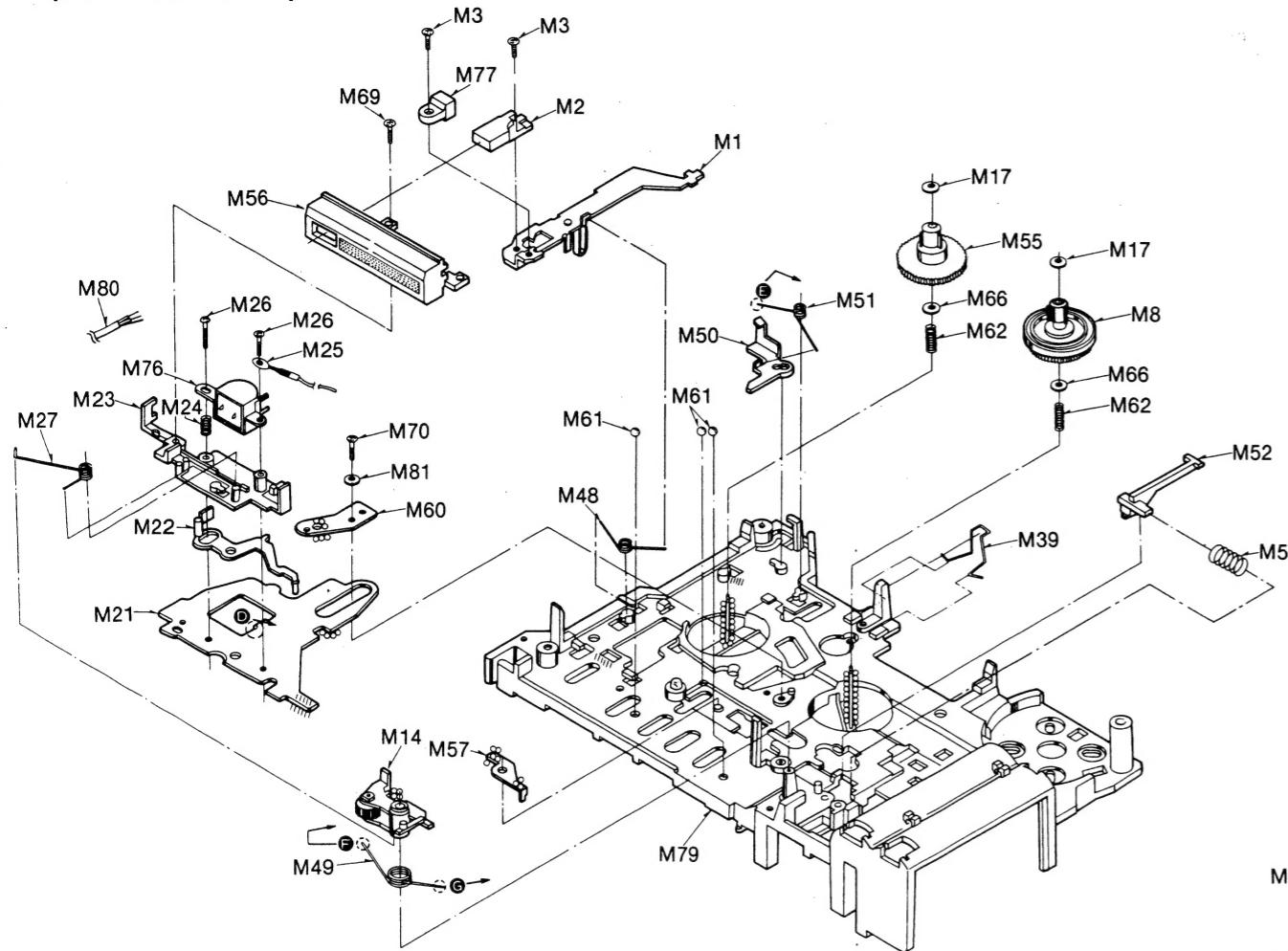
Ref. No.	Part No.	Part Name & Description
CABINET PARTS		
K 1	QKFK0318	Battery Cover Assembly
K 2	XTN26+33G	Screw $\oplus 2.6 \times 33$
K 3	WM034CZ102	Microphone
K 4	QBG1616	Mic Rubber
K 5	QKFK0118	Cassette Compartment
K 6	RUS629Z	Spring, Cassette
K 7	QKMK0245	Compartment
K 8	QSP5P01S	Rear Cabinet
K 9	XTN26+6G	Speaker
K 10	QXA53903	Screw $\oplus 2.6 \times 6$
K 11	XTN26+8B	Speaker Holding Metal
K 12	XWG26	Screw $\oplus 2.6 \times 8$
K 13	QGT1560K	Washer $\phi 2.6$
K 14	QKMK0253	Knob (Volume Control)
ACCESSORIES		
A 1 [M]	RQX4547	Instruction Book
A 1 [C]	RQX4583	Instruction Book
PACKINGS		
P 1 [M]	QPNK131	Inner Carton
P 1 [C]	QPNK132	Inner Carton
P 2	QPAK114	Cushion
P 3	QPSK114	Pad
P 4	XZB21X20-A01	Polyethylene Cover



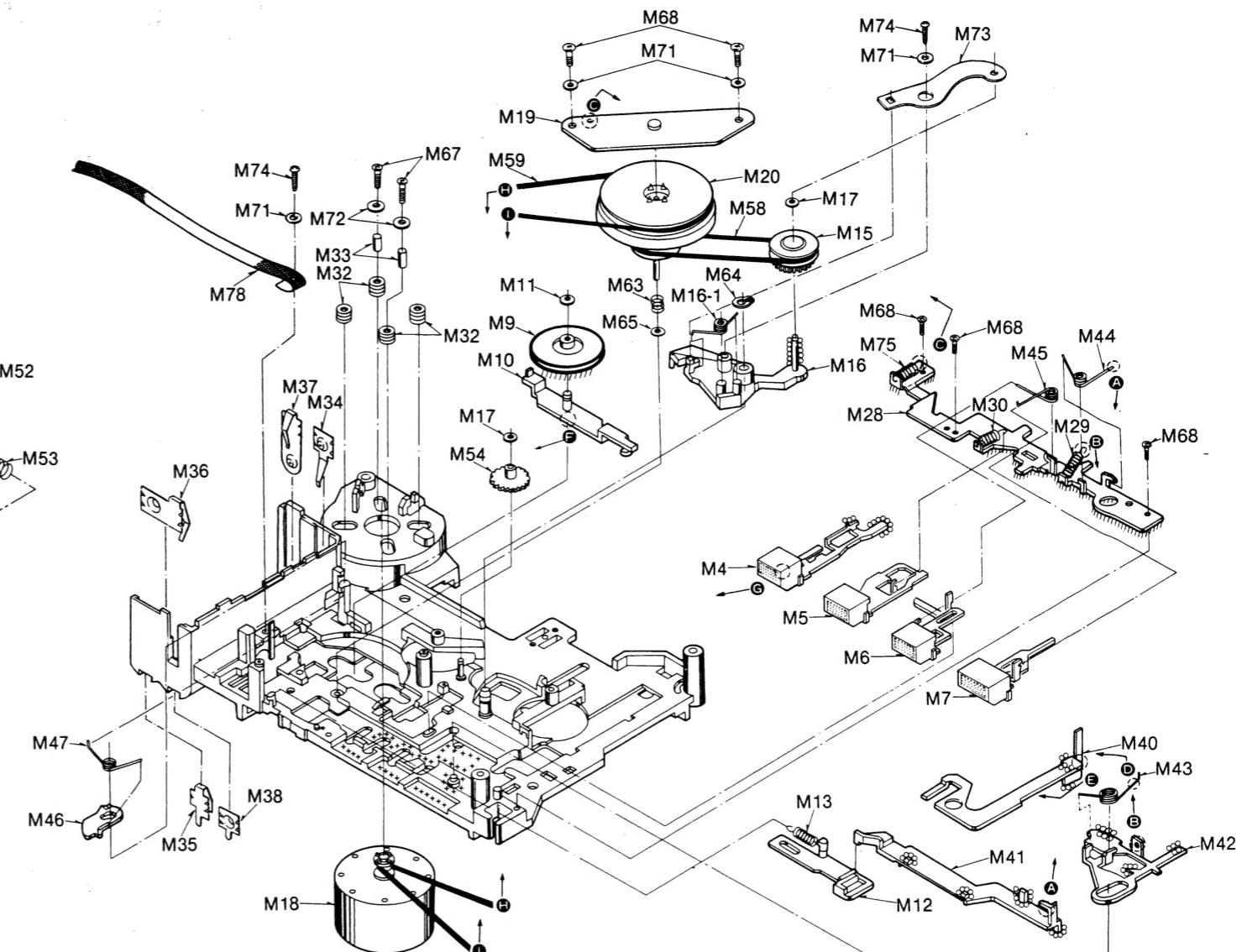
MECHANISM PARTS LOCATION

1 2 3 4 5 6 7 8 9 10 11 12 13

(FRONT VIEW)



(REAR VIEW)



Specifications

Playback torque	47 ± 15 g·cm
Fast Forward torque	65 ± 20 g·cm
Rewind torque	65 ± 20 g·cm
Pressure of pressure roller	360 ± 60 gcm
Wow and flutter	0.4% (WRMS)

NOTES:

When changing mechanism parts, apply the specified grease to the area marked show in the drawing "Mechanism Parts Location"

- "x" mark.....Rocol paste (Lubricating grease) (RZZ0L06)
- "O" mark.....Molytone (Lubricating grease) (RZZ0L07)
- "△" mark.....Dynamic (Lubricating grease) (RZZ0L05)
- "///" mark (Oblique Lines).....Aero (Lubricating grease) (RZZ0L04)

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
MECHANICAL PARTS																	
M 1	QXR1000	Record Rod Assembly	M 12	QMR1978	Auto-Stop Driving Rod	M 25	QJT0039	Lug Terminal	M 41	QMR1979	Lock Rod	M 56	QGO2067	Playback Button	M 70	XTN26+8BFZ	Tapping Screw $\oplus 2.6 \times 8$
M 2	QGO1953	Record Button	M 13	QBT1940	Auto-Stop Driving Rod Spring	M 26	XSB2D10.5	Screw $\oplus 2 \times 10.5$	M 42	QMR1972	Playback Rod	M 57	QML3848	Review Lever	M 71	XWG26	Washer 2.6ϕ
M 3	XTN26+5B	Tapping Screw $\oplus 2.6 \times 5$	M 14	QXL1502	Pinch Roller Assembly	M 27	QBN1842	Pressure Roller Spring	M 43	QBN1838	Playback Rod Spring (A)	M 58	QDB0309	Fast Wind Belt	M 72	XWA26B	Washer 2.6ϕ
M 4	QXR0828	Eject/Pause Button Assembly	M 15	QXG1061	Fast Wind Pulley Assembly	M 28	QMF2217	Rod Holding Plate	M 44	QBN1840	Lock Rod Spring	M 59	QDB0308	Flywheel Belt	M 73	QMF2231	Frame Holding Plate
M 5	QXR0829	Fast Forward/Cue Button Assembly	M 16	QXL1503	Fast Wind Frame Assembly	M 29	QBT1941	Playback Rod Spring (B)	M 45	QBN1836	Stop Rod Spring	M 60	QBP1940	Head Base Plate Pressure Spring	M 74	XTN26+6B	Tapping Screw $\oplus 2.6 \times 6$
M 6	QXR0830	Rewind/Review Button Assembly	M 17	QBW2008	Snap Washer	M 30	QBT1942	Fast Forward Spring	M 47	QBN1835	Pause Lock Lever	M 61	QDK1012	Steel Ball 2.5ϕ	M 75	QBT1902	Earth Spring
M 7	QXR0831	Stop Button Assembly	M 18	QXU0384	Motor Assembly	M 32	QBG1420	Motor Cushion	M 48	QBN1841	Record Rod Spring	M 62	QBC1272K	Back Tension Spring	M 76	QWY0141Y	Record/Playback Head
M 8	QXD0131	Takeup Reel Table Assembly	M 19	QXH0379	Flywheel Holding Plate Assembly	M 33	QMC0079	Motor Collar	M 49	QBN1844	Idler Spring	M 63	QBC1359	Flywheel Spring	M 77	QWY2149	Erase Head
M 9	QXI0119	Idler Assembly	M 20	QXF0184	Flywheel Assembly	M 34	QJB0166	Battery Terminal (A) $\oplus \ominus$	M 50	QML3847	Erase Safety Lever	M 64	XUBQ4FT	Stop Ring 4ϕ	M 78	QBJK0062	Battery String
M 10	QML3849	Idler Lever	M 21	QMK1944	Head Base Plate	M 35	QJB0158	Battery Terminal (B) $\ominus \oplus$	M 51	QBN1839	Leaf Switch Rod Spring	M 65	QBW0043	Snap Washer	M 79	QXKK1003	Chassis Assembly
M 11	QBW2046	Snap Washer	M 22	QML3852	Auto-Stop Detection Lever	M 36	QJB0168	Battery Terminal (C) $\oplus \ominus$	M 52	QML3853	Cassette-up Lever	M 66	QBW0042	Washer	M 80	QLSK2LJNC464	Shield Wire
			M 23	QMZ1282	Head Spacer	M 37	QJB0159	Battery Terminal (D) $\oplus \ominus$	M 53	QBC1396	Cassette-up Lever Spring	M 67	XYN26+B7.5	Screw $\oplus 2.6 \times 7.5$	M 81	XWE26FZ	Washer 2.6ϕ
			M 24	QBC1298	Head Spring	M 38	QJB0167	Battery Terminal (E) \oplus	M 54	QDG1252	Fast Wind Gear	M 68	XTN26+8B	Tapping Screw $\oplus 2.6 \times 8$			
						M 39	QBN1843	Cassette Retainer Spring	M 55	QDR1157	Takeup Reel Table	M 69	XSB2D10	Screw $\oplus 2 \times 10$			

▼ Be sure to fold at the (▼) mark so that mark is on the outside.